AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A compound represented by the following general formula (I):

[Chemical 1]

(wherein R is selected from the group consisting of the following group of functional molecules, H, a functional molecule, or a protecting group and n represents an integer of 1 to 11)

[Chemical 2]

2-5. (Canceled).

6. (Currently Amended) A method for producing a compound represented by the following general formula (I):

[Chemical 3]

(wherein R represents H_r a functional molecule or a protecting group, and n represents an integer of 1 to 11), wherein the aforementioned method contains one of the following steps a) through c):

a) a step of reacting a compound represented by the following general formula (II):

[Chemical 4]

(wherein n represents an integer of 1 to 11) with an active ester derivative with OSu or OPfp of a functional molecule or an isothiocyanate derivative of a functional molecule;

b) a step of hydrolyzing a compound represented by the following general formula (III):

[Chemical 5]

(wherein R represents H, a functional molecule or a protecting group, and n represents an integer of 1 to 11); and,

c) a step of reacting a compound represented by the following general formula (IV):

[Chemical 6]

(wherein R represents H_r a functional molecule or a protecting group, and n represents an integer of 1 to 11) with a compound represented by the following general formula (V):

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[Chemical 7]

7. (Currently Amended) A method for producing a functional PNA oligomer comprising a step of substituting group R H or a part or all of protecting group of R of a PNA oligomer to which is bonded

one type or two or more types of a compound represented by the following general formula (I):

[Chemical 8]

(wherein $\frac{B}{A}$ represents H, a functional molecule or a protecting group, and n represents an integer of 1 to 11) sequentially or simultaneously with a functional molecule.

8. 4. (Currently Amended) The method according to claim $\frac{7}{10}$, wherein $\frac{1}{10}$ the functional molecule in B is selected from the group consisting of the following:

[Chemical 9]

- 9. (Currently Amended) The method according to claim 6 or 7, wherein the compound represented by general formula (I) is produced by one of the steps of the following a) through c):
- a) a step of reacting a compound represented by the following general formula (II):

[Chemical 10]

(wherein n represents an integer of 1 to 11) with an active ester derivative with OSu or OPfp of a functional molecule or an isothiocyanate derivative of a functional molecule;

b) a step of hydrolyzing a compound represented by the following general formula (III):

[Chemical 11]

(wherein R represents H_r a functional molecule or a protecting group, and n represents an integer of 1 to 11); and,

c) a step of reacting a compound represented by the following general formula (IV):

[Chemical 12]

(wherein R represents H_r a functional molecule or a protecting group, and n represents an integer of 1 to 11) with a compound represented by the following general formula $(V)_{\tau}$:

[Chemical 13]

- 10. (Currently Amended) The method according to <u>claim 1</u>, <u>any of claims 10 to 12</u>, wherein the functional molecule is one type or two or more types selected from a light-emitting molecule, light-dissipating molecule, membrane-permeating functional molecule, organ-selective functional molecule, bactericidal functional molecule, molecule, molecule-recognizing functional molecule, photocrosslinking functional molecule, photosensitizing functional molecule, DNA-bonding molecule and DNA-severing functional molecule.
- 11. (Original) The method according to claim 10, wherein the functional molecule contains a light-emitting molecule and a

membrane-permeating functional molecule, and the membranepermeating functional molecule is a water-soluble amino acid.

- 12. (Original) The method according to claim 10, wherein the functional molecule contains a light-emitting molecule and a light-dissipating molecule, and the light-emitting molecule is FITC, naphthalimide, flavin, FAM, rhodamine, TAMRA, ROX, pyrene or coumarine, and the light-dissipating molecule is Dabcyl, HABA, NDI or Azo.
- 13. (New) The method according to claim 7, wherein the compound represented by general formula (I) is produced by one of the steps of the following a) through c):
- a) a step of reacting a compound represented by the following general formula (II):

[Chemical 10]

(wherein n represents an integer of 1 to 11) with an active ester derivative with OSu or OPfp of a functional molecule or an isothiocyanate derivative of a functional molecule;

b) a step of hydrolyzing a compound represented by the

following general formula (III):

[Chemical 11]

(wherein R represents a functional molecule or a protecting group, and n represents an integer of 1 to 11); and,

c) a step of reacting a compound represented by the following general formula (IV):

[Chemical 12]

(wherein R represents a functional molecule or a protecting group, and n represents an integer of 1 to 11) with a compound represented by the following general formula (V):

[Chemical 13]

- 14. (New) The method according to claim 6, wherein the functional molecule is one type or two or more types selected from a light-emitting molecule, light-dissipating molecule, membrane-permeating functional molecule, organ-selective functional molecule, bactericidal functional molecule, molecule-recognizing functional molecule, photo-crosslinking functional molecule, photosensitizing functional molecule, DNA-bonding molecule and DNA-severing functional molecule.
- 15. (New) The method according to claim 14, wherein the functional molecule contains a light-emitting molecule and a membrane-permeating functional molecule, and the membrane-permeating functional molecule is a water-soluble amino acid.
- 16. (New) The method according to claim 14, wherein the functional molecule contains a light-emitting molecule and a light-dissipating molecule, and the light-emitting molecule is FITC, naphthalimide, flavin, FAM, rhodamine, TAMRA, ROX, pyrene or coumarine, and the light-dissipating molecule is Dabcyl, HABA, NDI or Azo.
- 17. (New) The method according to claim 7, wherein the functional molecule is one type or two or more types selected

from a light-emitting molecule, light-dissipating molecule, membrane-permeating functional molecule, organ-selective functional molecule, bactericidal functional molecule, molecule-recognizing functional molecule, photo-crosslinking functional molecule, photosensitizing functional molecule, DNA-bonding molecule and DNA-severing functional molecule.

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- 18. (New) The method according to claim 17, wherein the functional molecule contains a light-emitting molecule and a membrane-permeating functional molecule, and the membrane-permeating functional molecule is a water-soluble amino acid.
- 19. (New) The method according to claim 17, wherein the functional molecule contains a light-emitting molecule and a light-dissipating molecule, and the light-emitting molecule is FITC, naphthalimide, flavin, FAM, rhodamine, TAMRA, ROX, pyrene or coumarine, and the light-dissipating molecule is Dabcyl, HABA, NDI or Azo.